Contents

NO. 1, MAY 1968

M. EIGEN. New looks and outlooks on physical enzymology *page* 3

J. WYMAN. Regulations in macromolecules as illustrated by haemoglobin 35

J. D. BERNAL. The relation of microscopic structure to molecular structure 81

C. G. BERNHARD, G. GEMNE and A. R. MØLLER. Modification of specular reflexion and light transmission by biological surface structures 89

A. K. SOLOMON. A short history of the foundation of the International Union for Pure and Applied Biophysics 107

NO. 2, JUNE 1968

A. KATCHALSKY and R. SPANGLER. Dynamics of membrane processes 127

J. HANSON. X-ray diffraction of muscle 177

NO. 3, AUGUST 1968

N. G. ANDERSON. Preparative particle separation in density gradients 217

R. KILKSON. Evolution of chromosomes and viruses, derivation of structure 265

NO. 4, JANUARY 1969

INGA FISCHER-HJALMARS. Molecular quantum mechanics in biology 311

H. WIGZELL. Regulation of immunity at the cellular level 347

H. H. USSING. The interpretation of tracer fluxes in terms of membrane structure 365

R. E. STEPHENS. Factors influencing the polymerization of outer fibre microtubule protein 377